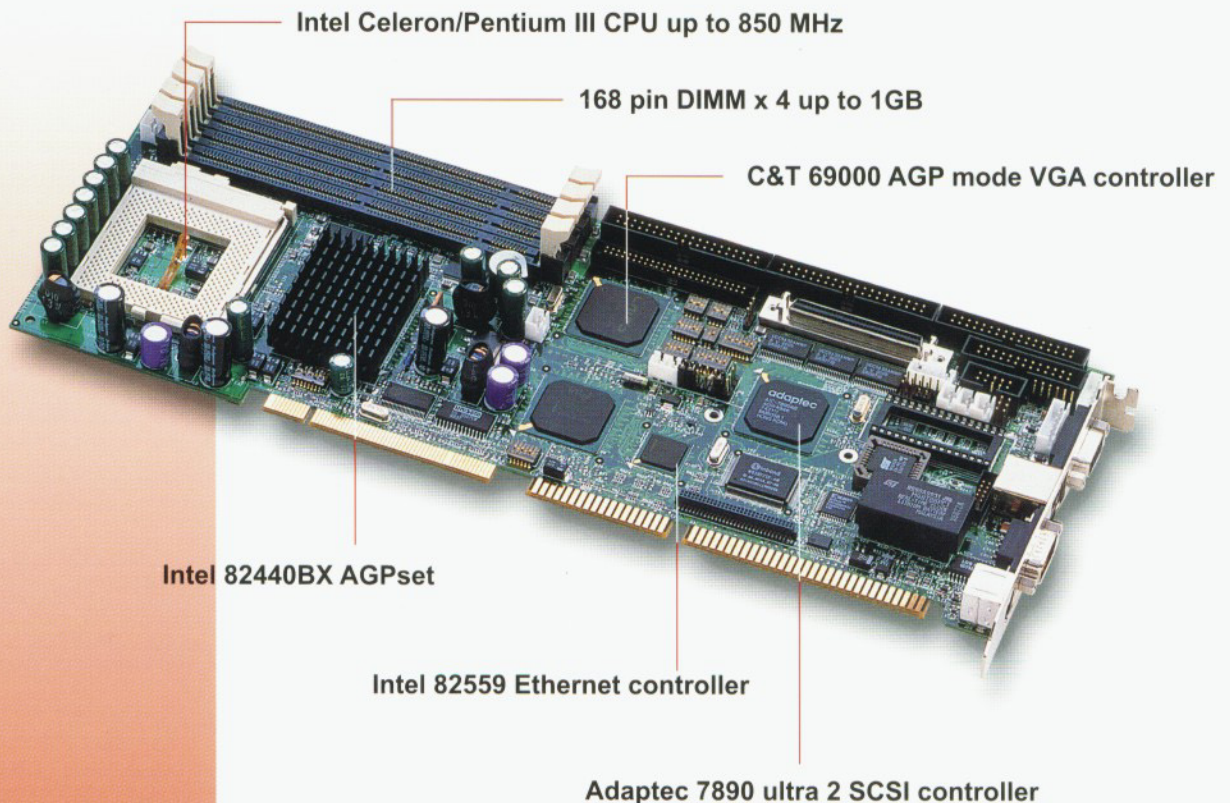


# PEAK 632A

Full-size Socket 370 Celeron/Pentium III  
AIO CPU Card



## Features

- ◆ Intel Celeron/Pentium III CPU with 66/100MHz FSB up to 850 MHz
- ◆ 1GB SDRAM (Max.) memory support, DIMM × 4
- ◆ Intel 440BX AGP set
- ◆ C&T 69000 AGP mode VGA controller with CRT/LCD support
- ◆ Intel 82559 10/100 Base Ethernet controller
- ◆ Adaptec 7890 UW/U2 SCSI controller (option)

**NEXCOM**

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# PEAK 632A

## Specifications

### System Architecture

- Full size SBC with PCI/ISA Golden finger
- Intel Socket 370 Celeron/Pentium III with 66/100MHz FSB
- PCI V2.1 complied
- PICMG 1.0 (Rev.2.0) complied

### CPU Support

- Intel Celeron/Pentium III CPU with 128/256K cache on die
- Brand New Socket 370 FC-PGA CPU running at 66/100MHz FSB up to 850 MHz
- Support streaming SIMD instruction

### Main Memory

- Support SDRAM up to 1GB (Max.)
- 168 pin DIMM socket × 4
- ECC support (single bit error correction/Multiple bit errors reporting)

### BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced configuration & Power Interface support
- 2M bit flash ROM

### Chip Set

- Intel 82440BX AGP set
- 66/100MHz FSB support
- PCI V2.1 complied
- Optimized SDRAM support

### On Board VGA

- C&T 69000 AGP mode VGA controller
- TFT LCD/DSTN LCD/CRT control
- 2MB SDRAM on die
- Maximum Res. Color & Refresh Rate

Resolution	Colors	Refresh Rate (Hz)
1280×1024	256	60
1024×768	16bits (High color)	85, 75, 65,
800×600	24bits (True color)	85, 75, 65

- Driver support: Windows 95/98, Windows NT4.0
- 15 pin CRT connector × 1, 50 pin LCD panel connector × 1

### On Board LAN

- Intel 82559 Single Ethernet controller
- 10 Base T/100 Base TX support, full duplex
- Complied with PCI V2.1, IEEE802.3, IEEE 802.3U
- Backward compatible with former 82558 Ethernet controller base net modules
- Driver support: DOS/Windows, Windows 95/98, Windows NT4.0, Netware, SCO Open Server 5.0
- RJ45 connector × 1

### On Board SCSI

- Adaptec AIC 7890 RISC SCSI controller
- Brand New Ultra 2 SCSI support
- 80MB/s (Max.) transfer rate, up to 12 meter cable
- Backward compatible with Ultra Wide SCSI, SCSI II, etc.
- Driver support: Windows 95/98, Windows NT4.0, SCO Open Server 5.0
- 68 pin SCSI connector × 1

### On Board I/O

- Winbond W83977 Super I/O on board

- SIO × 2, with 2 × 16C550 UARTs, 9 pin D-type × 1, 10 pin HEADER × 1, optional RS422/485 × 1
- PIO × 1, Bi-directional, EPP/ECP support, 26 pin × 1
- Floppy Disk controller: 5.25" 360K/1.2MB, 3.5" 720K/1.2MB /1.44MB/2.88MB support, 34 pin connector × 1
- On chip enhanced IDE × 2, PIO up to mode 4, DMA master up to mode 2, Ultra DMA/33 support, 40 pin × 2, total 4 E.IDE Devices support
- On chip keyboard, mouse controller, PS/2 Keyboard, Mouse, 5 pin header × 1, 6 pin mini DIN × 2, (for PEAK632V/PEAK632) : PS/2 Keyboard, 6 pin mini DIN × 1, share with PS/2 mouse by Y cable (for PEAK632A/PEAK632VL)
- On board USB port × 2 (6 pin header × 1)
- On board buzzer × 1
- On board 2 pin header for reset SW, 4 pin for speaker, 5 pin for keylock
- On board 3 pin header for +5VSTBY, GND, Power ON#
- On board 2 pin header for I<sup>2</sup>C
- On board reserved CAN Bus connector

### On Board RTC

- High precision real time clock/calendar with battery back up

### On Board Solid State Disk Socket

- On board reserved socket for DOC of M-systems: 2MB-144MB, etc

### System Monitor

- Winbond W83782D system monitor controller
- Six voltage (For +3.3V, +5V, +12V, -12V, Vtt and Vcore )
- One Fan speed (For CPU)
- Two temperature
- Drivers support: Windows 95/98, Windows NT4.0

### ISAMAX Support

- Maximize ISA signals to support ISA cards up to 20

### Watchdog Timer

- 1,2,4...64 seconds time-out intervals

### Dimensions

- 340mm(L)×122mm(W)

### Power Requirements

- +5V: 20A (Max.)
- +12V: 500mA (Max.)
- -12V: 50mA (Max.)

### Environments

- Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

### Certification

- CE approval
- FCC Class A

## Model Available

### PEAK 632A

- Full-size Socket 370 Celeron/Pentium III AIO CPU Card

### PEAK 632VL

- Full-size Socket 370 Celeron/Pentium III CPU Card w/ VGA/LAN

### PEAK 632V

- Full-size Socket 370 Celeron/Pentium III CPU Card w/ VGA

### PEAK 632

- Full-size Socket 370 Celeron/Pentium III CPU Card

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